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| <b>Form 1449 (Modified)</b><br><br><b>Information Disclosure<br/>Statement By Applicant</b><br><br>(Use Several Sheets if Necessary) | Atty Docket No.    | Serial No.: |
|                                                                                                                                      | ISAA0060           | 09/672,237  |
|                                                                                                                                      | Applicant:         |             |
|                                                                                                                                      | Caid, et al.       |             |
|                                                                                                                                      | Filing Date:       | Group:      |
|                                                                                                                                      | September 27, 2000 | 2129        |

#### U.S. Patent Application Documents

| Examiner Initial | No. | Patent No. | Date     | Patentee | Class | Sub-class | Filing Date |
|------------------|-----|------------|----------|----------|-------|-----------|-------------|
|                  |     | 4,730,259  | 03/08/88 | Gallant  |       |           |             |

#### Other Documents

| Examiner Initial | No. | Author, Title, Date, Place (e.g. Journal) of Publication                                                                                                                                                                                                                                                                       |
|------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /JH/<br>↓        | 1   | Antonini, M, et al., "Image Coding Using Wavelet Transform," Image Processing, IEEE Transactions, April 1992, Vol. 1, Issue 2, CNRS, Univ. de Nice-Sophia Antipolis, Valbonne, France. 18 pages                                                                                                                                |
|                  | 2   | Petilli, Stephen G., "Image Compression With Full Wavelet Transform (FWT) and Vector Quantization, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, IEEE 1993, pages 906-910                                                                                                               |
|                  | 3   | Martens, R.L.J., et al., "Coding of Image Textures Using Wavelet Decomposition and Hierarchal Multirate Vector Quantization," Dept. of Electronic Engineering, Toronto University, Ontario Canada, appears in Time-Frequency and Time-Scale Analysis, 1992, Proceedings of the IEEE-SP International Symposium, pages 101 -104 |
|                  | 4   | A. Yarnamoto, et al., "Extraction of Object Features and Its Application to image Retrieval," Trans. Of IEICE, Vol. E72, No. 6, pp. 771-781, June 1989                                                                                                                                                                         |
|                  | 5   | S.K. Chang, et al., "Pictorial Data-Base Systems," IEEE Computer Magazine Special Issue on Pictorial of Classification Societies, Kobe, Japan, March 27-30, 1996, Springer-Verlag, ~1998                                                                                                                                       |
|                  | 6   | Kimoto, H., "Construction of a Dynamic Thesaurus and Its Use for Associated information Retrieval," Proceedings of the 13th international Conference on Research and Development in information Retrieval, September 5-7, 1990, pgs. 227-2                                                                                     |
|                  | 7   | Denk, Tracy, et al., "Combining Neural Networks And the Wavelet Transform for Image Compression," Dept. of Electrical Engineering, University of Minnesota, Minneapolis, MN; 1993 IEEE; Pages 1-637 to 1Y640                                                                                                                   |
|                  | 8   | Rickman, Rick, et al., "Similarity Retrieval From Image Databases - Neural Networks can deliver"; Neural Networks and Pattern Recognition Group, Department of Electrical and Electronic Engineering, Brunel University, Uxbridge, Middx U B ~ 3PH, U.K., SPIE Vol. 1908 (1 1993); pages 85-94                                 |
|                  | 9   | Faloutsos, C., et al., "Efficient and Effective Querying by Image Content," Journal of Intelligent Issue 2, pages 62-72, 1994 Information Systems, Vol. 3, July 1994, pages 231-262                                                                                                                                            |

|      |    |                                                                                                                                                                                                                                                                                  |
|------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /JH/ | 10 | Ireton, M.A., et al., "Classification of Shade For Content Retrieval of Images In A Multimedia Database," Digital Processing of Signals in Communications, 1991 (IEE Conf. Pub. 340) University of Manchester, William R. Caid et al.                                            |
|      | 11 | Bach, Jeffrey R., et al., "A Visual information Management System for the Interactive Retrieval of Faces," Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, August 1993, pages 619-628                                                                             |
|      | 12 | Mehrota, Rajiv, et al., "Feature-Based Retrieval of Similar Shades," Department of Computer Science, University of Kentucky, Lexington, Kentucky, Data Engineering, 1993, pages 108-115                                                                                          |
|      | 13 | Shann, R., et al., "Detection of Circular Arcs for Content-Based Retrieval from an Image Database," IEE Proceedings - Vision, Image and Signal, Vol. 141, Issue 1, February 1994, pages 49-55                                                                                    |
|      | 14 | Gong, Yihong, et al., "An Image Database System with Content Capturing and Fast Image Indexing Abilities," Multimedia, 1994 International Conference, 1994, pages 121-130                                                                                                        |
|      | 15 | Del Bimbo, A., et al., "A Spatio-Temporal Logic for Image Sequence Coding and Retrieval," Visual Languages, 1992, pages 228-230                                                                                                                                                  |
|      | 16 | Davcev, Danco, et al., "A Query-Based Mechanism for Geometrical Objects Retrieval in Multimedia information System," System Sciences, Vol. 111, 1994, pages 581-589                                                                                                              |
|      | 17 | Kato, Toshikazu, et al., "A Sketch Retrieval Method for Full Color Image Database," Pattern Recognition, Vol. 1, 1992, pages 530-533                                                                                                                                             |
|      | 18 | Herrmann, Per, et al., "Retrieval of Document images Using Layout Knowledge," Document Analysis, 1993, pages 537-540                                                                                                                                                             |
|      | 19 | Grosky, William, et al., "Research Directions in Image Database Management," Data Engineering, 1992, pages 146-148                                                                                                                                                               |
|      | 20 | Oda, Masaomi, et al., "What Kinds of Facial Features are Used in Face Retrieval," Robot and Human Communication, 1993, pages 265-270                                                                                                                                             |
|      | 21 | Hou, Tai-Yuan, et al., "Medical Image Retrieval by Spatial Features," Systems, Man and Cybernetics, 1992 international Conference, 1992, pages 1364-1369                                                                                                                         |
|      | 22 | Del Bimbo, Albert, et al., "Sequence Retrieval by Contents through Spatio Temporal Indexing," Visual Languages, 1993 IEEE Symposium, pages 88-92                                                                                                                                 |
| ↓    | 23 | Gallant, S.I., et al., "Image Retrieval Using Image Context Vectors," Proceedings of the SPIE, The International Society for Optical Engineering, Vol. 2368, 1995, pages 2-12 Smoliar, Stephen W., et al. "Content-Based Video Indexing and Retrieval," IEEE Multimedia, Vol. 1, |

|      |    |                                                                                                                                                                                                                                             |
|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /JH/ | 24 | Sutcliffe, R.F.E., et al. "Distributed Representations in a Text Based Information Retrieval System: A New Way of Using the Vector Space Model," Proc. SIGIR '91 Conf., ACM, Chicago, IL October 1991                                       |
|      | 25 | Van Rijsbergen, C.J., "A Theoretical Basis for the Use of the Co-Occurrence Data in Information Retrieval," J. of Documentation, Vol. 33, pages 106-119, June 1977                                                                          |
|      | 26 | C.C. Chang, et al., "Retrieval of Similar Pictures on Pictorial Databases," Pattern Recognition, Vol. 24, No. 7, pp. 675-680, January 1991                                                                                                  |
|      | 27 | C.C. Chang, et al., "Retrieving the Most Similar Symbolic Pictures from Pictorial Databases," Information Processing & Management, Vol. 28, No. 5, pp. 581-588, January 1992                                                                |
|      | 28 | S.K. Chang, et al., "Iconic Indexing by 2-D Strings," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMIQ, No. 3, pp. 413-427, May 1987                                                                              |
|      | 29 | Egghe, L., "A New Method For Information Retrieval. Based On The Theory Of Relative Concentration, Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp.. 469-493 |
|      | 30 | T. Gevers, et al., "Enigma: An Image Retrieval System," IEEE 11TH IAPR International Conference on Pattern Recognition, pp. 697-700, 1992                                                                                                   |
|      | 31 | V.N. Gudivada, et al., "A Spatial Similarity Measure for Image Database Applications," Technical Report 91-1, Department of Computer Science, Jackson State University, Jackson Mississippi, pp. 1-12, April 1992                           |
|      | 32 | K. Hirata, et al., "Query by Visual Example Content Based Image Retrieval," Advances In Database Technology, pp. 56-71, March 1992                                                                                                          |
|      | 33 | M. Ioka, "A Method of Defining the Similarity of Images on the Basis of Color Information," Bulletin of the National Museum of Ethnology Special, No 17, pp. 229-244, November 1992                                                         |
|      | 34 | T. Kato, "Human Interface for Multimedia Database with Visual Interaction Facilities," Data Science, Classification and Related Methods, Proceedings of the Fifth Conference of the International Federation                                |
|      | 35 | Salton, G., et al., "A Vector Space Model for Automatic Indexing," Comm. Of the ACM, Vol. 18, November 1975                                                                                                                                 |
|      | 36 | T. Kato, et al., "A Cognitive Approach to Visual Interaction," international Conference on Multimedia information Systems MIS '91, pp. 109-120, January 1991                                                                                |
| ↓    | 37 | Kofakis, et al., "Image Archiving by Content: An Object-Oriented Approach," SPIE Vol. 1234, Medical                                                                                                                                         |

|      |    |                                                                                                                                                                                                                               |
|------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /JH/ | 38 | Lin, et al.; "A Self-Organizing Semantic Map for information Retrieval," Proceedings of the 14 <sup>th</sup> International ACM/SIGIR Conference on Research and Development in information Retrieval, pp. 262                 |
|      | 39 | Kwok, K.L., "A Neural Network for Probabilistic Information Retrieval," Proceedings of the Twelfth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Jun 25-28, 1989, pp. 21-30 |
|      | 40 | E.T. Lee, "Similarity Retrieval Techniques," Pictorial Information Systems, Springer Verlag, pp. 128- 176.1980                                                                                                                |
|      | 41 | Turtle, H., et al., "Inference Networks for Document Retrieval," Proceedings of the 13th International Conference on Research and Development in Information Retrieval, September 5-7, 1990, pp. 1-25                         |
|      | 42 | T. Kato, et al., " TRADEMARK: Multimedia Image Database System with Intelligent Human Interface," September 27,2000; Systems and Computers in Japan, Vol. 21, No. 11, pp. 33-46, 1990                                         |
| ↓    | 43 | Wong, S.K.M., et al., "On Modeling of information Retrieval Concepts in Vector Spaces," ACM Trans or Database Systems, Vol. 12, pages 299-321, 1987                                                                           |

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

/Joseph Hirl/ (03/14/2007)